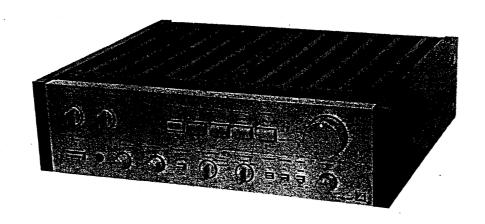
Hi-Fi Pre-Main Amplifier

DENON

SERVICE MANUAL MODEL PMA-950 PRE MAIN AMPLIFIER



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TOTAL DE LA TERRALE AND BARTE LIST
INDIT & FO LINIT FTC-430B
CONTROL UNIT FTC-431B
POWER AMP. UNIT PUS-029'
POWER CURRY & PROTECTOR UNIT FTC-432
WIRING DIAGRAM
WIRING DIAGRAM

NIPPON COLUMBIA CO., LTD.

SPEFICATIONS

POWER AMPLIFIER SECTION (TUNER - SP OUT)

Rated Output:

Both channels driven

Subject to Change by

Temperature Test:

20 Hz ~ 20 kHz 80 W + 80 W

(8 ohm load)

1 kHz

100 W + 100 W

(4 ohm load)

Total Harmonic Distortion:

Less than 0.004% Less than 0.01% (USA)

Intermodulation Distortion:

7 kHz/60 Hz : 1/4 at amplitude

output equivalent to rated output

Less than 0.004% Less than 0.01% (USA)

Output Band Width:

5 Hz ~ 100 kHz (IHF, T.H.D

Transmission

Characteristics:

1 Hz \sim 250 kH $^{+0}_{-3}$ dB (at 1 W

output)

Input Sensitivity:

150 mV

Input Impedance:

40 k ohm

Output Impedance:

0.1 ohm (1 kHz)

SN Ratio (IHFA

Network):

110 dB (Input terminals short-

circuited)

Output Terminals:

Speaker: A & B load 4 ~ 16 ohm,

A + B load 8 ~ 16 ohm; Head-

phone/Stereo headphone (Imped-

ance; changeable)

EQUALIZER AMPLIFIER SECTION

Equalizer Amplifier Output

(REC OUT Terminal): Maximum output 10 V (at 47

k ohm load)

Rated output 150 mV

Total harmonic wave distortion: below 0.001% (at 1 kHz, 8 V

output)

Input Sensitivity/

Input Impedance:

PHONO-1 MM 2.5 mV 47 k ohm PHONO-2MC 125µV 100 ohm

TUNER

150 mV 40 k ohm

AUX, TAPE 150 mV 40 k ohm

RIAA Deviation:

PHONO-1 MM Within ±0.2 dB

PHONO-2 (20 Hz ~ 100kHz)

MC Within ±0.2 dB

(20 Hz ~ 100kHz)

OVERALL CHARACTERISTICS

SN Ratio (IHA

Network):

PHONO-1 MM 90 dB (Input ter-

minals short-circuited,

at 2.5 mV input)

PHONO-2MC 75 dB (Input ter-

minals short-circuited,

at 250µV input)

TUNER, TAPE, AUX over 110 dB

(Input terminals short-

circuited)

Tone Control Adjustable

Range:

BASS TREBLE 100 Hz ±8 dB

SUBSONIC

10 kHz ±8 dB 18 Hz.

Filtering Characteristcs:

6 dB/oct

Low Frequency 100 Hz + 7 dB Loudness Characteristics:

High Frequency 10 kHz +6 dB

AC OUTLET:

Not included in systems for

European use.

SWITCHED × 2,100 W (Total) UNSWITCHED x 1,250 W

POWER SOURCE:

110/120/220/240V (Multiple)

POWER CONSUMPTION: 270 W

470 mm (W) x 140 mm (H) x DIMENSIONS:

14.5 kg

410 mm (D) (including rubber feet, control knobs, and terminals)

WEIGHT:

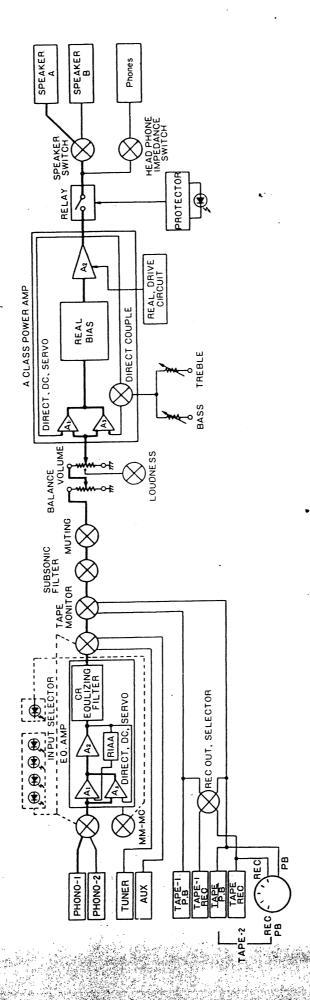
Design and specifications are subject to change without prior notice.

The following codes correspond to the appropriate models. NOTE:

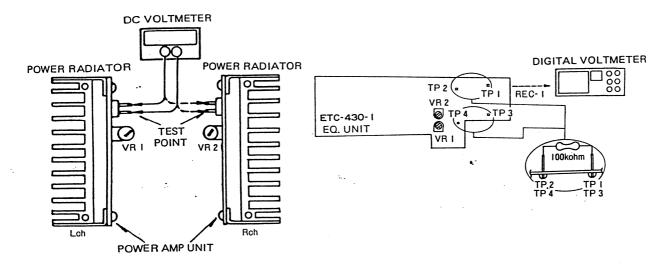
E2 for Europe and E1 for U.S.A., U.K., Hong Kong, Singapore.

This Service Manual is prepared based on E1.

BLOCK DIAGRAM



METHOD OF ADJUSTMENT



IDLE CURRENT ADJUSTMENT METHOD OF POWER AMP (PUS-029 PRINTED BOARD)

- 1. Place the unit in normal position, not sideways or tilted. Avoid too much ventilation, since the adjustment must be done where temperature is between 15°C and 30°C.
- 2. Set the switches on the unit as follows:

Power

→ OFF

Volume

 $\rightarrow \infty$ dB (min.)

Direct couple

→ DIRECT

- Speaker terminals → No load (no speaker connected)

 3. Remove the top cover, and the VR1 500 ohm and VR2 500 ohm of the tone & power amp printed board (22207000071) fully counter clockwise.

 Connect a DC voltmeter to the test points.
- 4. Plug in the AC cord to power outlet of: Europe 220 V (209~231 V); U.K. and Australia 240 V (228~252 V); Canada and U.S.A. 120 V (114~126 V); and turn the power on. Immediately (about after ten seconds), turn VR1 and VR2 clockwise and adjust the test point voltage (V_{TP}) to 50±5 mV preliminarily.
- 5. After about two or three minutes of the above preliminary adjustment, adjust VR1 and VR2 so as VTP reads 80±5 mV.

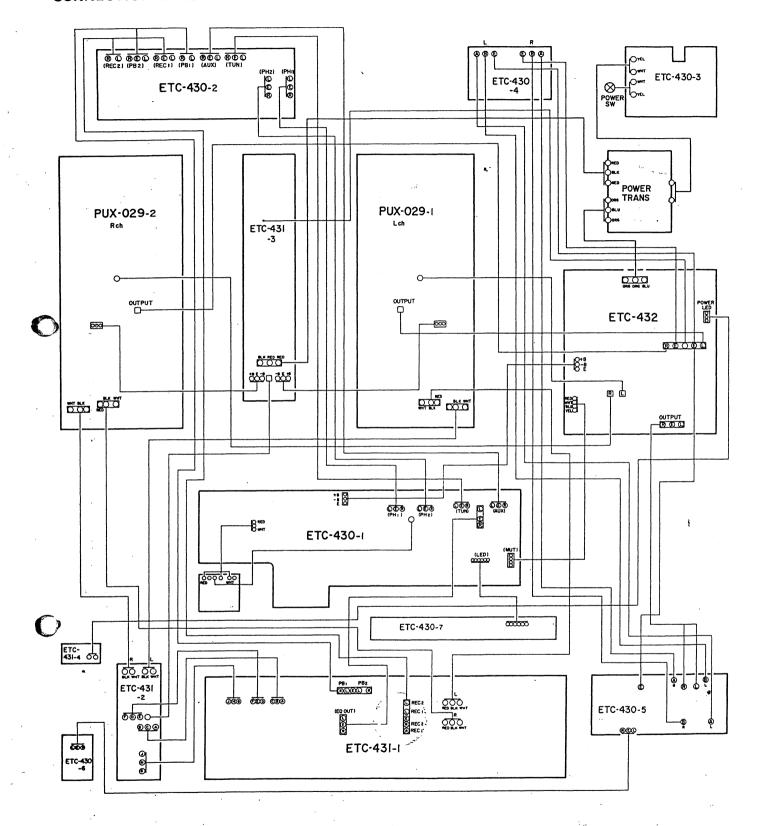
ADJUSTMENT OF EQUALIZER (ETC-430B PRINTED BOARD)

- Insert short pins into PHONO input terminals.
- Connect a digital voltmeter (0.01 mV ~ 1 mV DC range must be measurable) into each of REC. out terminals (L & R channels).
- 3. For easier measuring to avoid value fluctuation on the meter, connect a 100 k ohm (1/4W) resistor between the ends of the TP1/TP2 and TP3/TP4 on the printed board.
- 4. Set the FUNCTION switch to "MM" position, and turn the main volume to MIN.

ADJUSTMENT

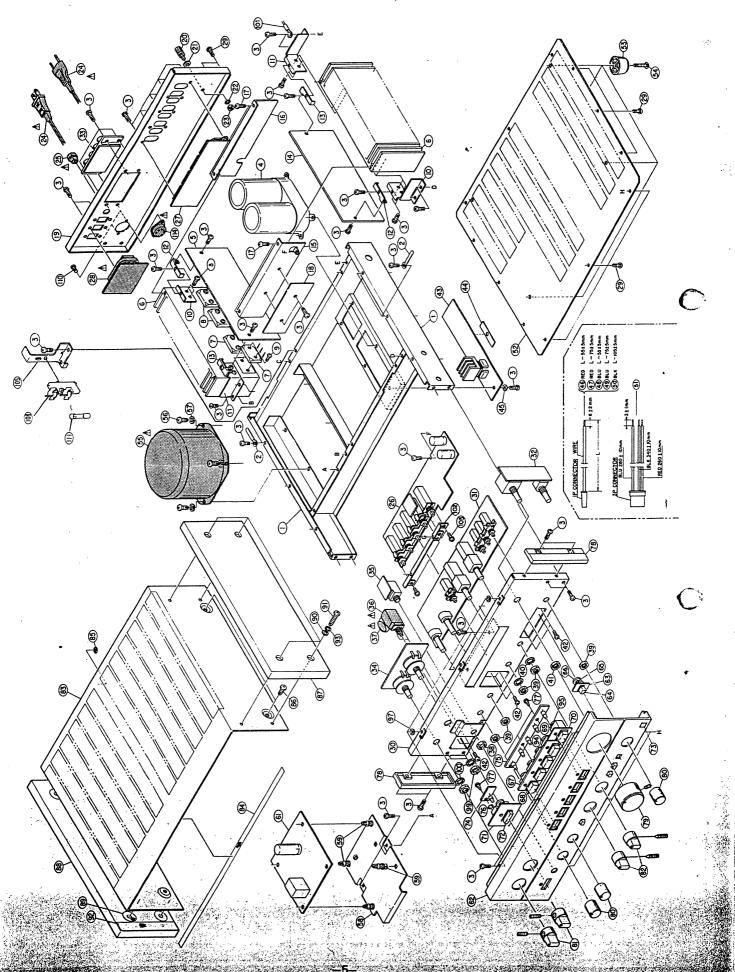
- 1. Turn POWER on, and after two minutes warming-up conduct the following adjustments.
- 2. Adjust VR1 (100 k ohms Semi-Fixed Resistor), so as the L-channel digital voltmeter reads 0.5 mV DC or less.
- 3. Adjust VR2 (100 k ohms Semi-Fixed Resistor), so as the R-channel digital voltmeter reads 0.5 mV DC or less.

CONNECTION DIAGRAM



EXPLODED VIEW OF CHASSIS AND CABINET

⚠ Means important safety item, which must be replaced, when necessary, by a part specified or meeting the specification by the manufacturer.



EXPLODED VIEW OF PARTS LIST

- Note1. See addendum list below for the parts with asterisk (*) on the Ref. No. and the other parts not included in this list.

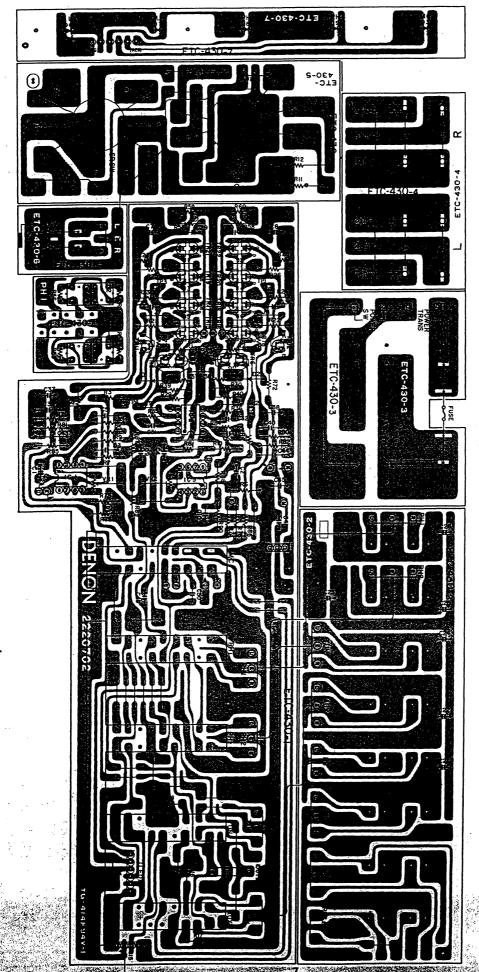
 2. This list is prepared based on E1.

	0	Day Name C Day 200	Def No	0 11-	O-MAN
Ref. No.	Part No.	Part Name & Descriptions	Ref. No.	Part No.	Part Name & Descriptions
1	4110293004	MAIN CHASSIS ASS.	58	4120725300	BOARD BRACKET
2	EP-4772	CORD HOLDER	59	MD-5271	P.C.B. SUPPORT
3	4730354035	TAPPING SCREW (2)3x8	60	— ·	· · · · · · · · · · · · · · · ·
4	2546027008	CHEMICON 22000µFx2 63 V	61	ETC-432	POWER SUPPLY & PROTEC-
5	PUX-029-1	POWER AMP UNIT	11		TOR UNIT
6	4170139001	POWER RADIATOR	62	1440825006	FRONT PANEL
7	2710145020	TRANSISTOR 2SA1215LB(0)/	63	1140050003	PANEL BUSH
•		(Y)	64	1130191105	PUSH KNOB
8	2730247021	TRANSISTOR 2SC2921LB(O)/	65	4630226014	SPRING
0	2750247021	(Y)	11 66	1190014002	STOPPER
•	4700012022	CROSS PAN SCREW WITH S.	67	1140054203	
9	4700012022				PANEL BUSH
		WASHER 3x12	68	1130259102	PUSH KNOB ASS.
10	4120871005	RADIATOR BRACKET (A)	69	4630246007	SPRING
11	4120872004	RADIATOR BRACKET (B)	70	1140057103	PANEL BUSH
12	4120873003	BRACKET (A)	71	1140051002	PANEL BUSH (C)
13	4120874002	BRACKET (B)	72	1130192007	PUSH KNOB ASS.
14	PUX-029-2	POWER AMP (R) UNIT	73	1350035012	MARK
15	4140234208	SHIELD BRACKET (A)	1 74	ETC-431B-4	POWER LED UNIT
16	4140235207	SHIELD BRACKET (B)	75	ETC-430B-7	INPUT LED UNIT (POWER
			/3	L104300-7	
17	4730353036	TAPPING SCREW (2)3×6		4770000400	LED)
4.5	44400000	(BLACK)	76	4770063108	INSULATING WASHER
18	4140236002	SHIELD PLATE	77	4730304014	TAPPING SCREW (1)3x8
*19	1050411004	BACK PANEL	78	1460283110	ESC. PLATE
20	2050043109	GND TERMINAL	79	1120333106	KNOB (VOLUME)
21	4770088002	ÿ4.1 WASHER	11 80	1120334008	KNOB (BALANCE, TONE)
22	4753100004	64 TOOTH WASHER	11 81	1120335007	KNOB (SPEAKER)
23	4770006000	M4 NUT	82	1120336006	KNOB (TAPE)
SEN ST.L. S	WINDS TO STATE OF STA	PAS EUFO	83	1020120008	TOP COVER
煮 汤	Mig 12	Bustinia	84	1220069008	SPACER
STATE OF THE PARTY	ETC 4200 1	INPUT & EQ-UNIT (EQ.)	85		STOPPER
26	ETC-430B-1			1040034006	
27	ETC-430B-2	INPUT & EQ-UNIT (INPUT)	86	4734801005	TAPPING SCREW TRUS 4x8
		NEGRESCHEINER (CHEER)	87	1011145005	WOOD BOARD (R)
29	4770064107	FIXING SCREW	88	1011146004	WOOD BOARD (L)
30	4110291103	FRONT CHASSIS	89 ·	1240032015	FELT SHEET
31	ETC-431B-1	CONTROL UNIT (CONTROL)	90	4751006016	φ5 WASHER (BLACK)
32	ETC-431B-2	CONTROL UNIT (VOLUME)	91	4734460035	TAPPING SCREW TRUS 4x20
33	ETC-430B-4	INPUT & EQ. UNIT (SPEAKER	92	1220069037	SPACER
	210,4000,4	TERMINAL)	93	4751006016	φ4 SPRING WASHER
34	ETC-430B-5	INPUT & EQ. UNIT (SPEAKER	94	4610167009	CUSHION
54	E10-4300-3	SWITCH)	95		SPACER
25	ETO 4000 C		95 96	4610156023	SPACER
35	ETC-430B-6	INPUT & EQ. UNIT (HEAD-		-	
OF A WHICE PARTIES AND		PHONE)	97	_	_
₩30	2124263022	FEUS:FSWEGEF	98	-	-
₩ 37	2588008010	GERAMIC CAPACITOR	99		M9 NUT (SPARE)
		DUCFIEF (CO-Y	100		φ9 TOOTH WASHER (SPARE)
38		M12 NUT (SPARE)	101	2050003000	3T LUG (ETC-430B)
39		M7 NUT (SPARE)	102	4120875001	5P SWITCH BRACKET (ETC-
40		φ7 TOOTH WASHER (SPARE)			430B)
41		M8 NUT (SPARE)	103	4700009006	CROSS PAN SCREW WITH S.
42	4711303018	CROSS PAN SCREW 3x6			WASHER 3x6 (ETC-430B)
43	ETC-431B-3	CONTROL UNIT (RECT)	104	1 _	
		EARTH PLATE	105	4120002000	BBACKET (A)
44	2050125001			4120892000	BRACKET (A)
45	4751003006	φ3 WASHER	106	-	
46	2030222005	1P CONNECTOR CORD (Lch,	107	4150173003	INSULATING SHEET
		+B)	108	2020011006	FUSE HOLDER
47	2030222018	1P CONNECTOR CORD (Rch,	109	4120238101	BRACKET
•		+B)	110	4711303034	CROSS PAN SCREW 3x6
48	2030222021	1P CONNECTOR CORD (Rch,	1		(BLACK)
		-в)	*111	2061025093	FUSE 125V 4A TIME LAG
49	2030222034	1P CONNECTOR CORD (Lch,	1 '''		TYPE
. 49	2000222004	-B)	112	5130159185	
- 1	2020222047				FUSE LABEL (T.4.0A)
50	2030222047	1P CONNECTOR CORD (E)	113	2048070003	5P. CONNECTOR (DIN)
51	_	_	经以前分割	32120186006£	Note the september of the North
52	1050336215	BOTTOM COVER			PACKING & ACCESSORIES
53	1040027107	FOOT			
54	4739051009	CROSS PAN SCREW WITH		5040055007	CABINET SHEET
I		WASHER 3x20		5030281001	CUSHION
¢A\≎55	22335304000TM	POLITER PERMANS		5010755007	CARTON CASE
56	4730455031	TAPPING SCREW (2) 4x10		5110919002	INST. MANUAL
57	4752004004	φ4 SPRING WASHER	1		
· · ·		F	Li		

ADDENDUM LIST

		Pa	rt No.	11		Pa	rt No.
Ref. No.	Part Name	E2 For Europe	E3 For USA, EC For Canada	Ref. No.	Part Name	E2 For Europe	E3 For USA, EC For Canada
19	BACK PANEL		the Talling and addition to	.4.75	INPUT & EQ-UNIT	ETC-430D-7	ETC-430B-7
党党	(150, 5) 6333 6; 246) 265) 266) 266)			115	(POWER LED)	4150088004	
26	INPUT & EQ-UNIT	ETC-430D-1	ETC-430B-1	116	7PW TERMINAL C. PAN SCREW WITH	2050089008 4700042005	
27	INPUT & EQ-UNIT	ETC-430D-2	ETC-430B-2	118	S. W. 3×8 M3 NUT	4756006008	
4 28 m	MEN (NECESSARIE)	The second secon	5 F6 (196)	111	FUSE	2061015087	Jan I. J. Walterson
<u>≱</u> 33 ∉1	INPUT & EQ-UNIT	ETC-430D-4	ETC-430B-4	119	C.SCREW WITH S.	(4A) 4700042005	4
34	(SPEAKER)	ETC-430D-5	ETC-430B-5	120	W 3x8 (BLACK) FUSE LABEL	5130622010	
35	(SP. SWITCH)	ETC-430D-6	ETC-4308-6	1.5		(T.8.0A) 🏃 🛴	
30	(H. PHONE)	The second second	ATTENDED TO	100		The second of	

PRINTED CIRCUIT BOARD PATTERNS AND PARTS LIST INPUT & EQ. UNIT ETC-430B



ETC-430B PARTS LIST

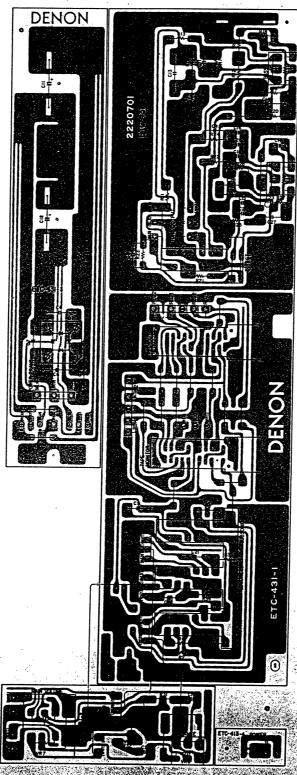
ICO1	Ref. No.	Part No.	Part Name & Descriptions
INTEGRATED CIRCUIT INTEGRA		`;	SEMICONDUCTORS
INTEGRATED CIRCUIT INTEGRA	1C01	2630133002	µPC741C INTEGRATED CIRCUIT
INTEGRATED CIRCUIT TRANSISTOR DIODE DI			
TR03			
TR04 2730198031 25C1815(BL)/(GR) TRANSISTOR TRA			
TROS 2730198031 25C1815(BL)/(GR) TRANSISTOR TRA			
TR11			2SC1815(BL)/(GR) TRANSISTOR
TR11			2SC1815(BL)/(GR) TRANSISTOR
TR12 2710102034			
TR15	TR12	2710102034	2SA1015(Y)/(GR) TRANSISTOR
TRAMSISTOR TRANSISTOR FIELD EFFECT TRANSISTOR			
TRANSISTOR TRANSISTOR TREAD TR			TRANSISTOR
TR17	TR16	2750029041	2SK240(GR)/(BL) FIELD EFFECT
TR18 2750029041 2SK240(GR)/(BL) FIELD EFFECT TRANSISTOR FIELD EFFECT TRA			TRANSISTOR
TR18 2750029041 2SK240(GR)/(BL) FIELD EFFECT TRANSISTOR FIELD EFFECT TRA	TR17	2750029041	2SK240(GR)/(BL) FIELD EFFECT
TR19			TRANSISTOR
TR19 2750029041 2SK240(GR)/(BL) FIELD EFFECT TRANSISTOR DIODE 2760185001 HZ-4-B3 DIODE 2760185	TR18	2750029041	2SK240(GR)/(BL) FIELD EFFECT
TR20 2750029041 2SK240(GR)/(BL) TRANSISTOR FIELD EFFECT TRANSISTOR DO2 2760185001 HZ-4-B3 DIODE DIGHT EMITTING DIODE DIO			TRANSISTOR
TR20 2750029041 2SK240(GR)/(BL) TRANSISTOR FIELD EFFECT TRANSISTOR DIODE	TR19	2750029041	
TR20			TRANSISTOR
TR21 2750029041 TR22 2750029041 D01 2760185001 HZ-4-B3 DIODE D02 2760185001 HZ-4-B3 DIODE D03 3939040002 D06 3939040002 TL2026 (GREEN) LIGHT EMITTING D10DE D07 3939040002 TLG206 (GREEN) LIGHT EMITTING D10DE D09 3939040002 TLG206 (GREEN) LIGHT EMITTING D10DE D09 3939040002 TLG206 (GREEN) LIGHT EMITTING D10DE TLG206 (GREEN) LIGHT EMITTING D10DE TLG206 (GREEN) LIGHT EMITTING D10DE RESISTORS VR01 2116025032 VR02 2116025032 VR02 2116025032 SEMI FIXED RESISTOR 100 k ohm 12412092002 1 k ohm ±5% WW CARBON FILM R04 2412116001 R05 2412112005 R06 2412112005 R07 2412116001 R08 2412112005 R08 2412112005 R09 2412123007 R10 241213007 R11 2412068007 R17 2412068007 R18 2412068007 R19 2412088006 R21 2412098006 R22 2412098006 R23 2412098006 R24 2412098006 R25 2412098006 R26 2412098006 R27 2412098006 R27 2412098006 R28 2412020016 R28 2412020016 R28 2412020016 R28 2412020016 R28 2412020016 R29 2412020016 R28 2412020016 R29 2412020016 R28 2412020016 R29 2412020016 R28 2412020016 R29 2412020016 R38 2412020016 R38 241206007 R10 ohm ±5% WW CARBON FILM STANDING R38 2412076002 R39 240 0 ohm ±5% WW CARBON FILM STANDING R38 2412020046 R29 240 ohm ±5% WW CARBON FILM STANDING R38 2412020016 R39 2412020016 R39 2412020016 R39 2412020016 R39 2412020016 R30 2412002005 R30 2412002006 R30	TR20	2750029041	
TR21			
TRANSISTOR D01 2760185001 HZ-4-B3 DIODE D02 2760185001 HZ-4-B3 DIODE D03 3939040002 TLG206 (GREEN) LIGHT EMITTING D10DE D06 3939040002 TLG206 (GREEN) LIGHT EMITTING D10DE D07 3939040002 TLG206 (GREEN) LIGHT EMITTING D10DE D08 3939040002 TLG206 (GREEN) LIGHT EMITTING D10DE D09 3939040002 TLG206 (GREEN) LIGHT EMITTING D10DE D09 3939040002 TLG206 (GREEN) LIGHT EMITTING D10DE RESISTORS VR01 2116025032 SEMI FIXED RESISTOR 100 k ohm TIXED RESISTOR SEMI FIXED RESISTOR 100 k ohm 11 2412092002 1 k ohm ±5% XW CARBON FILM R03 2412116001 10 k ohm ±5% XW CARBON FILM R04 2412112005 6.8 k ohm ±5% XW CARBON FILM R05 2412112005 6.8 k ohm ±5% XW CARBON FILM R06 2412112005 6.8 k ohm ±5% XW CARBON FILM R07 241216001 10 k ohm ±5% XW CARBON FILM R08 2412112005 6.8 k ohm ±5% XW CARBON FILM R09 2412123007 20 k ohm ±5% XW CARBON FILM R09 2412123007 20 k ohm ±5% XW CARBON FILM R09 2412123007 20 k ohm ±5% XW CARBON FILM R09 2412123007 20 k ohm ±5% XW CARBON FILM R10 241008007 100 ohm ±5% XW CARBON FILM R11 241008007 100 ohm ±5% XW CARBON FILM R12 241008007 100 ohm ±5% XW CARBON FILM R13 241208000 1 1.8 k ohm ±5% XW CARBON FILM R14 241208000 1 1.8 k ohm ±5% XW CARBON FILM R15 241208000 1 1.8 k ohm ±5% XW CARBON FILM R16 241208000 1 1.8 k ohm ±5% XW CARBON FILM R17 2412068007 100 ohm ±5% XW CARBON FILM R19 241208000 1 1.8 k ohm ±5% XW CARBON FILM R19 241208000 1 1.8 k ohm ±5% XW CARBON FILM R19 241208000 1 1.8 k ohm ±5% XW CARBON FILM R19 241208000 1 1.8 k ohm ±5% XW CARBON FILM R19 241208000 1 1.8 k ohm ±5% XW CARBON FILM R19 241208000 1 1.8 k ohm ±5% XW CARBON FILM R19 241208000 1 1.8 k ohm ±5% XW CARBON FILM R19 241208000 1 1.8 k ohm ±5% XW CARBON FILM R19 241208000 1 1.8 k ohm ±5% XW CARBON FILM R19 241208000 1 1.8 k ohm ±5% XW CARBON FILM R19 241208000 1 1.8 k ohm ±5% XW CARBON FILM R19 241208000 1 1.8 k ohm ±5% XW CARBON FILM R19 241208000 1 1.8 k ohm ±5% XW CARBON FILM R10 241208000 1 1.8 k ohm ±5% XW CARBON FILM R10 241208000 1 1.8 k ohm ±5% XW CARBON FILM R10 241208000 1 1.8 k ohm ±5% XW CARBON FILM R10 241208000 1 1.8 k ohm ±5%	TR21	2750029041	
TR22			
DO1	TR22	2750029041	
DO1		2.55525571	
DO2 2760185001 HZ-4-B3	DO1	2760185001	
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DIODE			
D06	טטט	3939091006	
DIODE		202004000	
D07 3939040002	D08	3939040002	1
DOB 3939040002 TLG206 (GREEN) DIODE LIGHT EMITTING DIODE			
D08	D07	3939040002	
TLG206 (GREEN)			
NR 116025032 SEMI FIXED RESISTOR 100 k ohm SEMI FIXED RESISTOR 100 k ohm 15% W CARBON FILM 10 k ohm	D08	3939040002	
VR01			
VR01	D09	3939040002	
VR01		L	DIODE
VR01			RESISTORS
VR02	1/001	2110000000	
R01			
R02			
R03 R04 2412116001 R05 2412112005 R06 2412112005 R07 2412116001 R08 2412116001 R08 2412113007 R09 2412123007 R10 2412123007 R10 2412123007 R10 2412123007 R10 2412123007 R10			
R04			
R05 R06 2412112005 R07 2412116001 R08 2412116001 R08 2412123007 R10 2412123007 R10 R10 R10 R21			
R06			
R07			
R08			
## R10			
R10			
### 2440078027			
## 24008007	R10	2412123007	ZUKONM ±5% %W CARBON FILM
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R15			
R15			
R16			
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R19			
R21			
R22			
R23			
R24 2412098006 R25 2412098006 R26 2412098006 R27 2412020016 R28 2412020016 R28 2412020016 R28 2412020016 R29 2412020016 R29 2412020016 R29 2412020016 R29 2412020016 R29 2412020016 R29 2412076002 R36 2412076002 R37 2412022043 R38 2412022043 R38 2412022043 R38 2412022043 R39 241202005 R39 2412002005 R39 2412002005 R39			
R25			
R26 2412098006 R27 2412020016 R28 2412076002 R36 R37 2412022043 R38 2412022043 R38 2412022043 R38 2412022043 R38 2412022043 R39 R38 2412022043 R39 R39 R39 R39 R39 R39 R39 R39 R39 R3			
R27 2412020016 1.8 k ohm ±5% ¼W CARBON FILM STANDING 1.8 k ohm ±5% ¼W CARBON FILM STANDING 1.8 k ohm ±5% ¼W CARBON FILM STANDING R35 2412076002 220 ohm ±5% ¼W CARBON FILM 2412076002 220 ohm ±5% ¼W CARBON FILM STANDING R37 2412022043 22 k ohm ±5% ¼W CARBON FILM STANDING R38 2412022043 22 k ohm ±5% ¼W CARBON FILM STANDING R53 2412022043 22 k ohm ±5% ¼W CARBON FILM STANDING	R25		
R27 2412020016 1.8 k ohm ±5% ¼W CARBON FILM STANDING 1.8 k ohm ±5% ¼W CARBON FILM STANDING 1.8 k ohm ±5% ¼W CARBON FILM STANDING R35 2412076002 220 ohm ±5% ¼W CARBON FILM 2212076002 220 ohm ±5% ¼W CARBON FILM STANDING R37 2412022043 22 k ohm ±5% ¼W CARBON FILM STANDING R38 2412022043 22 k ohm ±5% ¼W CARBON FILM STANDING R53 2412022043 22 k ohm ±5% ¼W CARBON FILM STANDING	R26	2412098006	
R28 2412020016 1.8 k ohm ±5% ½W CARBON FILM STANDING R35 2412076002 220 ohm ±5% ½W CARBON FILM 2412076002 220 ohm ±5% ½W CARBON FILM 22 k ohm ±5% ½W CARBON FILM STANDING R38 2412022043 22 k ohm ±5% ½W CARBON FILM STANDING R38 2412022043 22 k ohm ±5% ½W CARBON FILM STANDING R53 2412022043 22 k ohm ±5% ½W CARBON FILM STANDING			
R35 2412020016 220 ohm ±5% ¼W CARBON FILM STANDING R36 2412076002 220 ohm ±5% ¼W CARBON FILM CARBON FILM STANDING R37 2412022043 22 k ohm ±5% ¼W CARBON FILM STANDING R38 2412022043 22 k ohm ±5% ¼W CARBON FILM STANDING STANDING STANDING R53 2412002005 220 ohm ≥±5% ¼W CARBON FILM	-		
R35 2412076002 220 ohm ±5% ¼W CARBON FILM 221 cohm ±5% ¼W CARBON FILM 22 k ohm ±5% ¼W CARBON FILM STANDING	R28	2412020016	
R35 2412076002 220 ohm ±5% ¼W CARBON FILM R36 2412076002 220 ohm ±5% ¼W CARBON FILM R37 2412022043 22 k ohm ±5% ¼W CARBON FILM STANDING R38 2412022043 22 k ohm ±5% ¼W CARBON FILM STANDING			STANDING
R35 2412076002 220 ohm ±5% ¼W CARBON FILM R36 2412076002 220 ohm ±5% ¼W CARBON FILM R37 2412022043 22 k ohm ±5% ¼W CARBON FILM STANDING R38 2412022043 22 k ohm ±5% ¼W CARBON FILM STANDING STANDING		A 1924 1 1934	"到进到前的,我还没有一个时间的,我是是否是一个
R35 2412076002 220 ohm ±5% ¼W CARBON FILM R36 2412076002 220 ohm ±5% ¼W CARBON FILM R37 2412022043 22 k ohm ±5% ¼W CARBON FILM STANDING 22 k ohm ±5% ¼W CARBON FILM STANDING 22 k ohm ±5% ¼W CARBON FILM		Y	그는 그 사이 무슨 그는 그 화로운의 # 그 은 하던 모양
R35 2412076002 220 ohm ±5% ¼W CARBON FILM R36 2412076002 220 ohm ±5% ¼W CARBON FILM R37 2412022043 22 k ohm ±5% ¼W CARBON FILM STANDING R38 2412022043 22 k ohm ±5% ¼W CARBON FILM STANDING	(A) (2010)	一次,这一直的	
R36 2412076002 220 ohm ±5% %W CARBON FILM 22 k ohm ±5% %W CARBON FILM STANDING STANDING STANDING STANDING STANDING			
R36 2412076002 220 ohm ±5% %W CARBON FILM 22 k ohm ±5% %W CARBON FILM STANDING STANDING STANDING STANDING STANDING	R35	2412076002	
R37 2412022043 22 k ohm ±5% %W CARBON FILM STANDING 22 k ohm ±5% %W CARBON FILM STANDING STAN			
R38 2412022043 22 k ohm ±5% ¼W CARBON FILM STANDING R53 2412002005 220 ohm 2±5% ¼W CARBON FILM			
R38 2412022043 22 k ohm ±5% %W CARBON FILM STANDING R53 2412002005 220 ohm 2±5% %W CARBON FILM			
R53 2412002005 220 ohm 2±5% XW CARBON FILM	BSO	2412022042	
R53 = 2412002005 220 ohm = ±5% %W CARBON FILM			STANDING
≈ R53	A CONTRACTOR OF THE PARTY OF TH		
R53 2412002005 220 ohm 2±5% XW CARBON FILM	(B) 1159777 1		Service and the service of the servi
R53 2412002005 220 ohm 2±5% XW CARBON FILM			
	1,111		
	Mark DE2 mail	241200200E	220 ohm ##45% VW CADDON EILM
	COLUMN TO STATE OF THE PARTY OF	-2712002000	
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	Ref No.		Part Name & Descriptions
	R54	2412002009	
	R55	2412002009	STANDING 5 220 ohm ±5% ¼W CARBON FILM
	R56	2412002009	
	R57	2412068007	
	R58 R59	2412068007 2412133000	
	R60	2412133000	51 k ohm ±5% %W CARBON FILM
	通訊	· 经自分的编辑:	で、 学校 歌舞・大学の できょう かんかん デザイン こうしょう かんかん かんしょう かんかんき
	R73 R74	2412067008	91 ohm ±5% ¼W CARBON FILM
	R75	2412108006	4.7 ohm ±5% %W CARBON FILM
	R76	2412108006	
	R78	2412312009	2.7 M ohm ±5% ¼W CARBON FILM
	R79 R80	2412106008 2412106008	
	R81	2412132001	47 k ohm ±2% ¼W CARBON FILM
1	R82 R83	2412132001 2412060005	
I	R84 R85	2412060005 2412155004	47 ohm ±2% ¼W CARBON FILM
I	R86	2412155004	1 100 110 110 1200 00 110 00 11 1 1200
I	R87 R88	2412068007 2412068007	1
I	R89	2412068007	
l	R90	2412068007	100 ohm ±2% ¼W CARBON FILM
ŀ		-	CAPACITORS
l	C01 C02	2544003008 2544003008	
	C03	2561017019	0.01µF ±10% 630V METALIZED
	C04 C07	2561017019 2544013001	0.01µF
	C08	2544013001	470µF 10V ELECTROLYTIC
	C09	2556160078	0.0068μF ±5% 50V PLASTIC FILM FORMING
	C10	2556160078	0.0068μF ±5% 50V PLASTIC FILM FORMING
l	C15 C21	2544044009 2544043000	1μF 50V ELECTROLYTIC
	C22	2544043000	0.47μF 50V ELECTROLYTIC 0.47μF 50V ELECTROLYTIC
l	C23 C24	2544043000 2544043000	0.47μF 50V ELECTROLYTIC 0.47μF 50V ELECTROLYTIC
	C25	2544043000	0.47μF 50V ELECTROLYTIC
	C26 C29	2544043000 2556159018	0.47µF 50V ELECTROLYTIC 120pF ±5% 50V PLASTIC FILM
			FORMING
	C30	2556159018	FORMING
	යා යා	2554149004 2554149004	0.0015µF ±5% 50V PLASTIC FILM 0.0015µF ±5% 50V PLASTIC FILM
	C35	2541035008	1μF ±20% 35V ELECTROLYTIC
	ය6 යා	2541035008 2554070018	1μF ±20% 35V ELECTROLYTIC 0.001μF ±1% 100V PLASTIC FILM
	ය8 සා	2554070018	0.001μF ±1% 100V PLASTIC FILM
	C39 C40	2554083034 2554083034	0.018μF ±2% 100V PLASTIC FILM 0.018μF ±2% 100V PLASTIC FILM
	C41	2544038002	100µF 35V ELECTROLYTIC
	C43 C44	2554083047 2554083047	0.068μF ±2% 100V PLASTIC FILM 0.068μF ±2% 100V PLASTIC FILM
	C45 C49	2544038002	100µF 35V ELECTROLYTIC
	C50	2556160081 2556160081	0.0075µF ±5% 50V PLASTIC FILM FORMING 0.0075µF ±5% 50V PLASTIC FILM
	C51	2556159092	FORMING 470pF ±5% 50V PLASTIC FILM
	C52	2556159092	FORMING 470pF ±5% 50V PLASTIC FILM
	C55	2544044009	FORMING 1μF 50V ELECTROLYTIC
_	C56	2544044009	1μF 50V ELECTROLYTIC '
_			OTHER PARTS
	1 . 1	2220702102 2090047903	P.W. BOARD 0.6 JUMPER WIRE SHORTLEAD USED 25
•	. ;;	2090008133 EP-5667H1	JUMPER SHOTLEAD USED 11 TERMINAL WRAPPING PIN USED 8
	SW01	2120187005	ROTARY SWITCH FOR SPEAKER
Á	SW02 SW03	2120188004 2124290008	ROTARY SWITCH FOR H.P. IMPEDANCE 4P. PUSH SWITCH FOR FUNCTION
1	A 200 P	756	
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Ref. No.	Part No.	Part Name & Descriptions	Ref: No.	Part No.	Part Name & Description
\$W04	2124291007 2033909008 205007004 EP-5870 2061017027 2048045009 2048078005 2050122033 2035622024 2035622008 2035622082 2050003000 2034152003 2034152016	1P. PUSH SWITCH FOR MC~MM AC OUTLET 8P. TERMINAL FOR SPEAKER FUSE HOLDER USED 2 FUSE 8A 4P. PIN JACK 4P. CONNECTOR BASE ASS. 3P. CONNECTOR PIN ASS. 4P. MINI CONN. PIN 3P. CONN. BASE 6P. CONN. BASE 3T LUG 3P. CONTACT WIRE ASS. FOR PH1 3P. CONTACT WIRE ASS. FOR PH2	L01 L02 L03 L04	2034152029 2034152032 2038092004 2038093003 2040075019 4120875001 4700009006 4450033005 2318017000 2318017000 2318017000	3P. CONTACT WIRE ASS. FOR TON 3P. CONTACT WIRE ASS. FOR AUX 5P. CONNECTOR CORD FOR PE 6P. CONNECTOR CORD FOR LED 5P. SWITCH BRACKET CROSS PAN SCREW WITH S. WASHER 3x6 WIRE CLAMP BAND INDUCTOR INDUCTOR INDUCTOR INDUCTOR

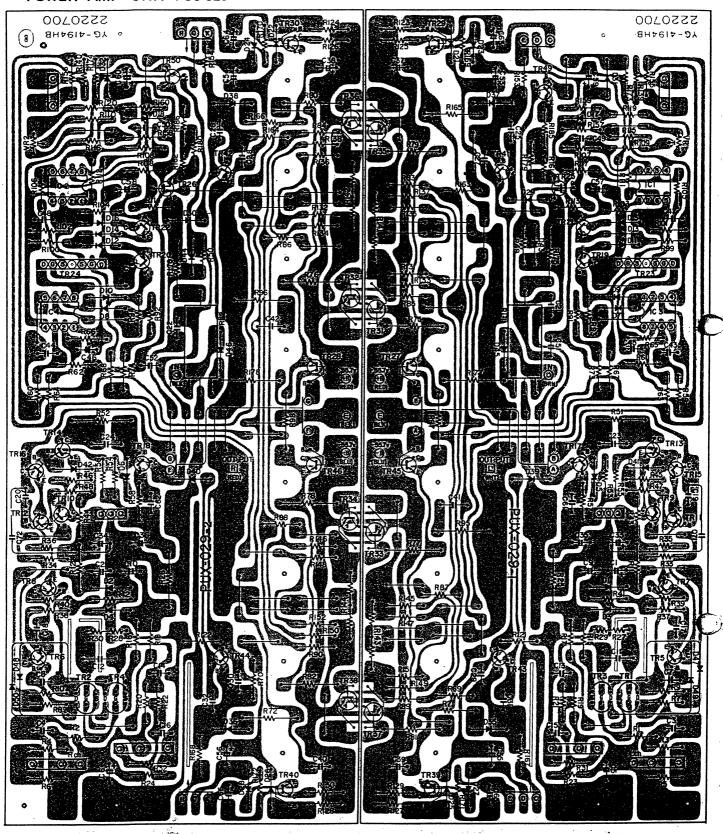
CONTROL UNIT ETC-431B



ETC-431B PARTS LIST

Γ	Ref.	Part No.	Part Name & Descriptions	Ref.	Part No.	Part Name & Descriptions
-	NO.		SEMICONDUCTORS		· · · · · · · · · · · · · · · · · · ·	OTHER PARTS
l	D04 1	3939032007 2760312007	TLR206(RED) LIGHT EMITTING DIODE S10VB20F DIODE		2220701006 2090047903	P.W. BOARD 0.6 JUMPER WIRE USED 23 TERMINAL FOR WRAPPING PIN USED 1
t			RESISTORS		EP-5667H1 2050087039	3P. TERMINAL USED 1
	VR03	2110278005	VARIABLE RESISTOR 100 k ohm (FOR BASS) VARIABLE RESISTOR 50 k ohm	SW01 SW02	2050122059 2124288007 2120190005	5P. CONNECTOR PIN ASS. 1P. PUSH SWITCH FOR DIRECT ROTARY SWITCH (A) FOR REC OUT
	VR05 VR06	2110277006 2110256108	(FOR TREBLE) VARIABLE RESISTOR 100 k ohm	SW03 SW04	2120189003 2124289006	ROTARY SWITCH (B) FOR MONITOR 3P. PUSH SWITCH FOR SUB. LOUD, MUT.
	VR07	2110276007	(FOR BALANCE) VARIABLE RESISTOR 55 k ohm		2034147005 2034149016	3P. CONNECTOR CORD FOR +B,E,-B 3P. CONNECTOR CORD FOR EQ OUT
l	R01	2412130003	(FOR MAIN VR) 39 k ohm ±5% %W CARBON FILM		2034150021	3P. CONNECTOR CORD FOR TONE OUT (3P. CONNECTOR CORD FOR TONE OUT (
١	R02	2412130003	39 k ohm ±5% ¼W CARBON FILM		2034156009	3P. CONNECTOR CORD FOR VOL OUT (L
١	R03	2412108006	4.7 k ohm ±5% ¼W CARBON FILM		2034156012	3P. CONNECTOR CORD FOR VOL OUT (R 3P. CONNECTOR CORD FOR POWER LED
١	R04 R09	2412108006 2420203003	4.7 k ohm ±5% %W CARBON FILM 10 M ohm ±10% %W CARBON COMPOSIT	1	4140062001	SHIELD PLATE
١	R10	2420203003	10 M ohm ±10% %W CARBON COMPOSIT			
I	R11	2412084007	470 ohm ±5% ½W CARBON FILM			
١	R12	2412084007	470 ohm	1		
١	R13 R14	2412114003 2412114003	8.2 k ohm ±5% ¼W CARBON FILM			· ·
١	R15	2412094000	1.2 k ohm ±5% ½W CARBON FILM		İ	
1	R16	2412094000	1.2 k ohm ±5% ¼W CARBON FILM			
*)R17	2412138005	82 k ohm ±5% %W CARBON FILM 82 k ohm ±5% %W CARBON FILM			
۳	∕⁄R18 R19	2412138005 2412115002	82 k ohm ±5% ½W CARBON FILM 9.1 k ohm ±5% ½W CARBON FILM			
l	R20	2412115002	9.1 k ohm ±5% ¼W CARBON FILM			
١	R21	2412063002	62 ohm ±5% ½W CARBON FILM			
	R22 R23	2412063002 2412099005	62 ohm			
١	R24	2412099005	2 k ohm ±5% ½W CARBON FILM			
1	R25	2412079009	300 ohm ±5% ½W CARBON FILM			
١	R26	2412079009 2412084007	300 ohm			
١	R27 R28	2412084007	470 ohm ±5% ¼W CARBON FILM	1		
١	R31	2412120000	15 k ohm ±5% ½W CARBON FILM			
١	R32	2412120000	15 k ohm ±5% ¼W CARBON FILM			
	R33 R34	2412103001 2412103001	3 k ohm			
ł	1134	2412100001	CAPACITORS			
ŀ	C03	2554127000	180pF ±5% 50V PLASTIC FILM			
١	C04	2554127000	180pF ±5% 50V PLASTIC FILM			
١	C05	2561016007	0.068µF ±10% 400V METALIZED			1
1	C06	2561016007	0.068µF ±10% 400V METALIZED			
١	C07 C08	2561016007 2561016007	0.068µF ±10% 400V METALIZED 0.068µF ±10% 400V METALIZED	l		
١	C09	2554082048	0.18µF ±5% 100V PLASTIC FILM			
١	C10	2554082048	0.18μF ±5% 100V PLASTIC FILM			•
١	C11	2554183002	0.039µF			
	C12 C13	2554183002 2554082080	0.039µF	1		•
	C14	2554082080	0.27µF ±5% 100V PLASTIC FILM		,	
٦	√C15	2554161008	0.0047µF ±5% 50V PLASTIC FILM			
١	C16	2554161008 2554127000	0.0047µF ±5% 50V PLASTIC FILM 180pF ±5% 50V PLASTIC FILM			
١	C17 C18	2554127000	180pF ±5% 50V PLASTIC FILM			
١	C19 •	2554142001	750pF ±5% 50V PLASTIC FILM		:	
١	C20	2554142001	750pF ±5% 50V PLASTIC FILM			
١	C21 C22	2554193005 2554193005	0.1µF			•
١	C23	2554147006	0.0012µF ±5% 50V PLASTIC FILM		·	
١	C24	2554147006	0.0012µF ±5% 50V PLASTIC FILM		·	
-	C25	2554155001	0.0027µF ±5% 50V PLASTIC FILM			
-	C26 C27	2554155001 2554187008	0.0027µF ±5% 50V PLASTIC FILM 0.056µF ±5% 50V PLASTIC FILM			
1	C28	2554187008	0.056µF ±5% 50V PLASTIC FILM			
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POWER AMP UNIT PUS-029



PUS-029 PARTS LIST

Ref. No.	Part No.	Part Name	& Descriptions	Ref.	Part No.	P
140.		SEMICONDUCTORS		D30	2760049011	1S2076A
1001	2630081002		EGRATED CIRCUIT	D31	2760049008	1S2076
IC01 IC02	2630081002		EGRATED CIRCUIT	D32	2760049008 2760049011	1S2076 1S2076A
1C03	2630081002	NJM4558D INT	EGRATED CIRCUIT	D35 D36	2760049011	1\$2076A
ICO4	2630081002	NJM4558D INT 2SK129A(K)/(L)	EGRATED CIRCUIT FIELD EFFECT	D37	2760049011	1S2076A
TR01	2750022035	23K129A(KI/(LI	TRANSISTOR	D38	2760049011	1S2076A 1S2076A
TR02	2750022035	2SK129A(K)/(L)	FIELD EFFECT	D39 .	2760049011 2760049011	1S2076A
7000	2750022035	2SK129A(K)/(L)	TRANSISTOR FIELD EFFECT	D41	2760244007	MZ303A
TR03	2750022035	25/(125/(/////////	TRANSISTOR	D42 D43	2760244007 2760177006	MZ303A MZ-306
TR04	2750022035	2SK129A(K)/(L)	FIELD EFFECT	D44	2760177006	MZ-036
TR05	2730235020	2SC1841(F)/(E)	TRANSISTOR TRANSISTOR	D45	2760049011	1S2076A
TR06	2730235020	2SC1841(F)/(E)	TRANSISTOR	D46 D47	2760049011 2760049008	1S2076A 1S2076
TR07	2730235020	2SC1841(F)/(E)	TRANSISTOR	D48	2760049008	152076
TR08 TR09	2730235020 2710102005	2SC1841(F)/(E) 2SA1015(Y)	TRANSISTOR TRANSISTOR	D49	2760049008	152076
TR10	2710102005	2SA1015(Y)	TRANSISTOR	D50	2760049008	1S2076
TR11	2710102005	2SA1015(Y)	TRANSISTOR			RESISTOR
TR12	2710102005 2710110000	2SA1015(Y) 2SA916(L)	TRANSISTOR TRANSISTOR	VR01	2116014043	SEMI FIXE
TR13	2710110000	2SA916(L)	TRANSISTOR	VR02	2116014043	SEMIFIXE
TR15	2710110000	2SA916(L)	TRANSISTOR		Extended to the section of the secti	
TR16 R17	2710110000	2SA916(L) 2SC1941(L)	TRANSISTOR TRANSISTOR	11 3 2		
R18	2730205005	2SC1941(L)	TRANSISTOR	(到底 位)	Sample military	11 2000
TR19	2730198015	2SC1815(BL)	TRANSISTOR			
TR20 TR21	2730198015	2SC1815(BL) 2SC1815(BL)	TRANSISTOR TRANSISTOR	公司	MARKELLA.	ar Dedini
TR22	2730198015	2SC1815(BL)	TRANSISTOR	R05	2412157002	510 k ohm
TR23	2750024059	μPA68H(M)/(N)	FIELD EFFECT	R06	2412157002	510 k ohm
TR24	2750024059	μPA68H(M)/(N)	TRANSISTOR FIELD EFFECT	R07	2412318029	4.7 k ohm
1024	2750024059	μι Αυσιτική/τινή	TRANSISTOR	R08 R09	2412318029 2412318029	4.7 k ohm 4.7 k ohm
TR25	2750020024	2SK163(M)/(N)	FIELD EFFECT	R10	2412318029	4.7 k ohm
TR26	2750020024	2SK163(M)/(N)	TRANSISTOR FIELD EFFECT	R11	2442002020	7.5 k ohm
11120	2750020024		TRANSISTOR	R12 R15	2442002020 2412114003	7.5 k ohm 8.2 k ohm
TR27	2730199027	2SC2238(Y)/(O)	TRANSISTOR	R16	2412114003	8.2 k ohm
TR28 TR29	2730199027 2740060007	2SC2238(Y)/(O) 2SD667A(C)	TRANSISTOR TRANSISTOR	R17	2412114003	8.2 k ohm
TR30	2740060007	2SD667A(C)	TRANSISTOR	R18	2412114003	8.2 k ohm
TR31	2730247021	2SC2921 LB(O)/(Y) 2SC2921 LB(O)/(Y)	TRANSISTOR TRANSISTOR			
TR32 TR33	2730247021 2710145020	2SA1215LB(O)/(H)	TRANSISTOR	William		SITE THE
TR34	2710145020	2SA1215LB(O)/(Y)	TRANSISTOR	R21	2412111006	6.2 k ohm
TR35	2730247021	2SC2921 LB(O)/(Y) 2SC2921 LB(O)/(Y)	TRANSISTOR TRANSISTOR	R22	2412111006	6.2 k ohm
TR36 TR37	2730247021 2710145020	2SA1215LB(O)/(Y)	TRANSISTOR	R23 R24	2412134009 2412134009	56 k ohm 56 k ohm
TR38	2710145020	2SA1215LB(O)/(Y)	TRANSISTOR	H24	2412134009	
TR39	2720053005 2720053005	2SB647A(C) 2SB647A(C)	TRANSISTOR TRANSISTOR	W. 120	24100 (102)	RESERVATION.
TR40	2720053005	2SC1815(Y)	TRANSISTOR	R27 R28	2420203003 2420203003	10 M ohm :
₹ R42	2730198002	2SC1815(Y)	TRANSISTOR	R28	2420203003	10 M ohm
R43 TR44	2710102005 2710102005	2SA1015(Y) 2SA1015(Y)	TRANSISTOR TRANSISTOR	R30	2420203003	10 M ohm :
TR45	2710102005	2SA968(Y)/(O)	TRANSISTOR	R31 R32	2412130003 2412130003	39 k ohm 39 k ohm
TR46	2710104029	2SA968(Y)/(O)	TRANSISTOR	M98333	2412130003	
TR49. TR50	2710102005 2710102005	2SA1015(Y) 2SA1015(Y)	TRANSISTOR TRANSISTOR			
D01	2760219003	HZ-15	DIODE	M. GK	Z/1/23/17999	ekilo afin
D02	2760219003	HZ-15	DIODE	M 335	Z112312020	Significal
D03 D04	2760219003 2760219003	HZ-15 HZ-15	DIODE			
D05	2760171028	HV-23G(YL)	DIODE	W. E.	72.6722 (0.10)	3:10 10m
D06	2760171028	HV-23G(YL)	DIODE	//\. :87)	2000 LINE.	Second?
D07 D08 -	2760049008 2760049008	1S2076 1S2076	DIODE			
D09	2760049008	1S2076	DIODE	410 333	31 (A) (1052)	r stylesing.
D10	2760049008	1\$2076	DIODE	(184)	केमकिसमार	
D11 D12	2760049008 2760049008	1S2076 1S2076	DIODE	AV (zen)	2012 p.s.	
, D13	2760049008	1S2076	DIODE	Gibs Asili	gir ingiri, dinari	* - *. *. *!
D14 D15	2760049008 2760216019	1S2076 KB-265	DIODE	W. 3.		
D15	2760216019	KB-265	DIODE	ريوا لاج د ال		
D17	2760049008	1S2076	DIODE	egipe in 1985. S		
D18 D21	2760049008 2760254000	1S2076 HZ-7B-3	DIODE			
D21	2760254000	HZ-7B-3	DIODE	SAN SEAR		
D23	2760049008	1\$2076	DIODE			,
D24 D25	2760049008 2760254000	1S2076 HZ7B-3	DIODE	R45	2412044005	
ু ⊵D26 ∑	2760254000	HZ7B-3	DIODE	R46 - R47	2412044005 2412044005	_10 ohm _10 ohm
D27	2760049008	1S2076 1S2076	DIODE A	R48	2412044005	10 ohm
D28 * D29	2760049008 2760049011	1S2076A	DIODE			

TRO2 2750022005 28K193A(K)/LU FIELD SFERCY TRANSISTOR T	COLD SCORE COLD	Part Name & Descriptions	Part No.	Ref. No.	No. Part Name & Descriptions	Ref. No.
Cold Science Cold	CO1				SEMICONDUCTORS	
ICO2 250001002 ICO2000000 ICO2000000000000000000000000000000000000	CG2				1002 NJM4558D INTEGRATED CIRCUIT	1001
COX 250001002 COX	ICO3				1002 NJM4558D INTEGRATED CIRCUIT	
COLD \$50,001002 \$251,001	COM				1002 NJM4558D INTEGRATED CIRCUIT	
TRID 7260/22005 7281/34/K/I/LI FIELD STFOCT	TR00					
TROS. 2750022055 28K193AKI/ILI FIELD EFFECT TRANSITOR PROPERTY PRO	TRO2		2760049011	D38		TR01
TRANSISTOR TRA	TR00 2750022035 25K129A(K)/(L) FIELD EFFECT					TROS
TROS 275002035 25125AB(I) TRANSISTOR TRANSISTOR TRANSISTOR TROS 273023000 2510416716 TRANSISTOR TRANSISTOR TROS 273023000 2510416716 TRANSISTOR TRANSISTOR TRANSISTOR TROS 273023000 2510416716 TRANSISTOR TRANSISTOR TROS 273023000 2510416716 TRANSISTOR TRANSISTOR TROS 273023000 2510416716 TRANSISTOR TRAN	TROM 2750022035 25K129AKI/ILL TRANSISTOR D43 2750077006 Miles 2750022035 25K129AKI/ILL TRANSISTOR D43 2750077006 Miles 275007700					11102
TROS 275002035 28X128A(K)/(L) FIELD DEFFECT THE 275002030 25C1941(F)/(E) TRANSISTOR TRANSIS	TR04 2750022035 28K129A(K)/(L) FRANSISTOR D44 2760017006 M2 270025020 D47 PRASSISTOR D44 276004908 18 276004901 18 2760049					TR03
TROS. 27500230520 25C1941(F)/IET TRANSISTOR	TROM 2750022055 25K139AKI/I/L TRANSISTOR D46 275004001 18 17 18 18 18 18 18 1					
TROS 273023920 25C1941E/IIE TRANSISTOR TRANSIST	TROS 2700250020 25C1941[F](E) TRANSISTOR TRANSI	2-036 DIODE	2760177006	D44		TR04
TRADE 279023920 25C1841[FI/IE] TRANSISTOR TRANS	TROS 2730259020 2SC1841(F)/(E) TRANSISTOR TROS 2730259020 2SC1841(F)/(E) TRANSISTOR TROS 2730259020 2SC1841(F)/(E) TRANSISTOR TROS 27300259020 2SC1841(F)/(E) TRANSISTOR DAY 2750049008 1S 2750049008					TROS
TRANSISTOR TRA	TROP 2730258020 2SC1841(F)(E) TRANSISTOR TROP 2730025002 2SC1841(F)(E) TROP 2730025002 2SC1841(F)(E) TROP 2730025002 2SC1841(F)(E) TRANSISTOR TROP 2730025005 2SA1015(Y) TRANSISTOR TROP 2730025005 2SC1941(L) TRANSISTOR TRANSISTOR TROP 2730025005 2SC2238(M)(N) TRANSISTOR TROP 2730025005 2SC2238(M)(N) TRANSISTOR TROP 2730025005 2SC2238(M)(N) TRANSISTOR TROP 2730025005 2SC2231(M)(N) TRANSISTOR TROP 2730025005 2SA1015(M) TRANSISTOR TROP 2730025005 2SA					
TRANSISTOR TRA	TROS 2730025020 2SCIBATE				5020 2SC1841(F)/(E) TRANSISTOR	
TRIS 2710102005 28.1018/17 TRANSISTOR TRANSI	TROS 2710102005 25A10151Y TRANSISTOR TROS 2710102005 25A10151Y TRANSISTOR TRIT 2710102005 25A10151Y TRANSISTOR TRIT 2710102005 25A10151Y TRANSISTOR TRIT 2710102005 25A10151Y TRANSISTOR TRIT 2710110200 25A9161L TRANSISTOR TRIT 2710110200 25A9161L TRANSISTOR TRIT 2710110200 25A9161L TRANSISTOR TRIT 271010200 25A9161L TRANSISTOR TRIT 271010200 25A9161L TRANSISTOR TRIT 271010200 25C11941 TRANSISTOR TRIT 271010200 25C11941 TRANSISTOR TRIT 2730198015 25C119516L TRANSISTOR TRIT 2730198017 25C1231616L TRANSISTOR TRANSISTOR TRIT 2730198017 25C123116L TRANSISTOR TRANS				0020 20010111111	
TR11 2710102005 28A1015(Y) TRANSISTOR TRANSI	TRI1 2710102005 2SA1015(Y) TRANSISTOR TRI2 2710102005 2SA1015(Y) TRANSISTOR TRI3 271010000 2SA916(L) TRANSISTOR TRIA 271010000 2SA916(L) TRANSISTOR TRIA 271010000 2SA916(L) TRANSISTOR TRIA 271010000 2SCI 25C1815(L) TRANSISTOR TRANS	2076 DIODE				
TR12 2710110000 25A9161L TRANSISTOR THAN 271010000 25A9161L TRANSISTOR THAN 271010000 25A9161L TRANSISTOR THAN 2710100000 25A9010000 25A90100000 25A90100000 25A9010000 25A9010000 25A90100000 25A9010000 25A90100000000000000000000000000000000000	TRI3 2710110000 2SA916LU TRANSISTOR TRI4 2710110000 2SA916LU TRANSISTOR TRI5 2710110000 2SA916LU TRANSISTOR TRI6 2710110000 2SA916LU TRANSISTOR TRIF 2730189015 2SC1941LU TRANSISTOR TRANSISTOR TRIF 2730189015 2SC1941LU TRANSISTOR TRANSISTOR TRIP 2730198015 2SC1941LU TRANSISTOR TRANSISTOR TRIP 2730198015 2SC1941LU TRANSISTOR TRIP 2730198015 2SC1941LU TRANSISTOR TRIP 2730198017 2SC1941LU TRANSISTOR TRIP 2730199017 2SC1941LU TRANSISTOR TRANSISTOR TRIP 274000007 2SC1941LU TRANSISTOR TR	SISTORS	<u> </u>			
TR13	TR13		2116014043	VP01		
TR16 2710110000 25A916(L) TRANSISTOR TRANSIS	TR14 2710110000 23A916(L) TRANSISTOR TR16 2710110000 23A916(L) TRANSISTOR TR16 2710110000 23A916(L) TRANSISTOR TR16 2710110000 23A916(L) TRANSISTOR TR17 273020505 23C1941(L) TRANSISTOR TR18 273025055 23C1941(L) TRANSISTOR TR19 273025055 23C1941(L) TRANSISTOR TR19 2730198015 23C1915(BL) TRANSISTOR TR21 2730198015 23C1915(BL) TRANSISTOR TR21 2730198015 23C1915(BL) TRANSISTOR TR21 2730198015 23C1915(BL) TRANSISTOR TR22 2750020024 23K163(M)/(N) FIELD EFFECT TRANSISTOR TR22 2750020024 23K163(M)/(N) FIELD EFFECT TRANSISTOR TR22 2750020024 23K163(M)/(N) FIELD EFFECT TRANSISTOR TR22 2730199027 23C22218(N)/(O) TRANSISTOR TR22 2730199027 23C22218(N)/(O) TRANSISTOR TR22 2730199027 23C22218(N)/(O) TRANSISTOR TR22 2730199027 23C22218(N)/(O) TRANSISTOR TR22 2730247021 23C222118(D)/(Y) TRANSISTOR TR32 2730247021 23C222118(D)/(Y) TRANSISTOR TR33 2730247021 23C222118(D)/(Y) TRANSISTOR TR32 2730247021 23C222118(D)/(Y) TRANSIST				0000 2SA916(L) TRANSISTOR	
TR16 2710110000 2A3161L	TR16				0000	
TR17 2730205005 25C1941(L) TRANSISTOR TRANSISTO	### 273025005 25C1941(L) TRANSISTOR TRAY 2730198015 25C1815(BL) TRANSISTOR TRAY 2750024059 \(\nu^2 A68H(M)/(N) \) FIELD EFFECT R06 2412157002 STAY 241218029 4.7 ### TRAY 275002040 \(\nu^2 A68H(M)/(N) \) FIELD EFFECT R07 2412318029 4.7 ### TRAY 275002024 25K163(M)/(N) FIELD EFFECT R09 2412318029 4.7 ### TRAY 2730199027 25C2238(Y)/(O) TRANSISTOR TRANSISTOR TRAY 2730199027 25C2238(Y)/(O) TRANSISTOR TRAY 2740060007 25D667A(C) TRANSISTOR TRAY 2730247021 25C2921LB(D)/(Y) TRANSISTOR R15 2412114003 S.7 ### TRAY 2730247021 25C2921LB(D)/(Y) TRANSISTOR R22 241211006 S.7 ### TRAY 2730247021 25C2921LB(D)/(Y) TRANSISTOR R22 241213009 S.7 ### TRAY 2730247021 25C2921LB(D)/(Y) TRANSISTOR R22 241213009 S.7 ### TRAY 2730247021 25C2921LB(D)/(Y) TRANSISTOR R22 24					
TR19	TR19 2730198015 25C1815(BL) TRANSISTOR TR20 2730198015 25C1815(BL) TRANSISTOR TR21 2730198015 25C1815(BL) TRANSISTOR TR22 2730198015 25C1815(BL) TRANSISTOR TR22 2730198015 25C1815(BL) TRANSISTOR TR22 2730198015 25C1815(BL) TRANSISTOR TR22 2730198015 25C1815(BL) TRANSISTOR TR23 2750024059 PA68H(M)/(N) FILEL 0 EFFECT TRANSISTOR		14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	F/L (5) (2)		
TR19 2730198015 25C1815(BL) TRANSISTOR TRANSIST	TR19		Barran Santaga	14 To 15		R18
TR20 2730198015 251818BL HANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR FIELD EFFECT TRANSISTOR F	TR21 2730198015 25C1815(BL) TRANSISTOR FIELD EFFECT ROWN PASSHOWN FIELD EFF	为1000 出版,1900 1000 1000 1000 1000 100 0 1000 1000			8015 2SC1815(BL) TRANSISTOR	
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TR23 2750024059 #PA68H(M)/(N) FIELD EFFECT TRANSISTOR TRANSIST	TR22 2750020024 2FA68H(M)/(N) FIELD EFFECT ROW 241218029 4.7 F	1. 14. 1945年 - 2. 文学的 2. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14.			8015 ZSC1815(BL) TRANSISTOR	
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TR24 2750024059	TR24 2750020024 PA68H(M)/(N) FIELD EFFECT TRANSISTOR R10 2412318029 4.7 TRANSISTOR R11 244200200 7.8 TRANSISTOR R12 2730199027 SSC2238(Y)/(O) TRANSISTOR R15 2412114003 8.2 R17 2412114003 8.2 R18 2730199027 SSC2238(Y)/(O) TRANSISTOR R15 2412114003 8.2 R18 2730199027 SSC2238(Y)/(O) TRANSISTOR R16 2412114003 8.2 R17 2412114003 8.2 R18 2730199027 SSC2238(Y)/(O) TRANSISTOR R16 2412114003 8.2 R18 2730199027 SSC2921LB(O)/(Y) TRANSISTOR R17 2412114003 8.2 R18 2730147021 SSC2921LB(O)/(Y) TRANSISTOR R19 2720053005 SS6647A(C) TRANSISTOR R21 2412114003 8.2 R21 2730198002 SSC1815(H) TRANSISTOR R21 2412114006 8.2 R21 2730198002 SSC1815(H) TRANSISTOR R22 2412134009 8.2 R23 2730198002 SSC1815(Y) TRANSISTOR R23 2412134009 8.2 R23 2412134009					1 1723
TR25 2750020024 2SK163(M)/(N) FIELD EFFECT TRANSISTOR	TR25 TR26 TR26 TR26 TR27 TR27 TR27 TR28 TR27 TR28 TR27 TR28 TR28 TR29 TR29 TR29 TR29 TR29 TR29 TR29 TR29	k ohm ±2% ½W CARBON FILM			4059 μPA68H(M)/(N) FIELD EFFECT	TR24
TRANSISTOR FIELD EFFECT TRANSISTOR TRANSISTO	TR26 2750020024 2SK163(M)/(N) FIELD EFFECT TRANSISTOR FIELD EFFECT TRANSISTOR	k ohm ±2% ¼W CARBON FILM				
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TR27 2730199027 SSC2238(T)/IO	TR27 2730199027 2SC2238(Y)/(O) TRANSISTOR TRAPS 2730199027 2SC2238(Y)/(O) TRANSISTOR TRAPS 2740060007 2SD667A(C) TRANSISTOR TRAPS 2740060007 2SD667A(C) TRANSISTOR TRAPS 2740060007 2SC2921LB(O)/(Y) TRANSISTOR TRAPS 2730247021 2SC2921LB(O)/(Y) TRANSISTOR TRAPS 2730247021 2SC2921LB(O)/(Y) TRANSISTOR TRAPS 2710145020 2SA1215LB(O)/(Y) TRANSISTOR TRAPS 2730247021 2SC2921LB(O)/(Y) TRANSISTOR TRAPS 273018002 2SC1815(Y) TRANSISTOR TRAPS 273018002 2SA0105(Y) TRANSISTOR TRAPS 273018002 2SA088(Y)/(O) TRANSISTOR TRAPS 273018002 2SA088(Y)/(O) TRANSISTOR TRAPS 273018002 2SA088(Y)/(O) TRANSISTOR TRAPS 2730102005 2SA0					11120
TR28 2730199027 25022381V/IO TRANSISTOR TRANSIS	TR28					
TR30	TR30 TR31 TR31 TR31 TR32 TR32 TR32 TR32 TR33 TR33 TR33 TR33	k ohm ±5% ¼W CARBON FILM				
TR31 2730247021 28C2921LB(D)/(Y) TRANSISTOR 73270145020 2SA1215LB(D)/(H) TRANSISTOR 73270145020 2SA1215LB(D)/(Y) TRANSISTOR 73270247021 28C2921LB(D)/(Y) TRANSISTOR 73270247021 28C2921LB(D)/(Y) TRANSISTOR 73270247021 28C2921LB(D)/(Y) TRANSISTOR 73270145020 2SA1215LB(D)/(Y) TRANSISTOR 7432 270053005 2SB647A(C) TRANSISTOR 7441 2730198002 2SC1815(Y) TRANSISTOR 7441 2730198002 2SC1815(Y) TRANSISTOR 7442 2730198002 2SC1815(Y) TRANSISTOR 7442 2730198002 2SC1815(Y) TRANSISTOR 7442 2730198002 2SC1815(Y) TRANSISTOR 7443 2730198002 2SC1815(Y) TRANSISTOR 7444 2730198002 2SC1815(Y) TRANSISTOR 7444 2730198002 2SC1815(Y) TRANSISTOR 7444 2730198002 2SC1815(Y) TRANSISTOR 7444 2730194005 2SC1815(Y) TRANSISTOR 744	TR31 2730247021 2SC2921LB(0)/(Y) TRANSISTOR TR32 2730247021 2SC2921LB(0)/(Y) TRANSISTOR TR34 2710145020 2SA1215LB(0)/(H) TRANSISTOR TR35 2730247021 2SC2921LB(0)/(Y) TRANSISTOR TR36 2730247021 2SC2921LB(0)/(Y) TRANSISTOR TR37 2710145020 2SA1215LB(0)/(Y) TRANSISTOR TR37 2710145020 2SA1215LB(0)/(Y) TRANSISTOR TR37 2710145020 2SA1215LB(0)/(Y) TRANSISTOR TR38 2710145020 2SA1215LB(0)/(Y) TRANSISTOR TR39 2720053005 2SB647A(C) TRANSISTOR TR40 2710102005 2SA1015(Y) TRANSISTOR TR40 2710102005 2SA1015(Y) TRANSISTOR TR40 2710104029 2SA968(Y)/(O) TRANSISTOR TR50 2710102005 2SA1015(Y) TR50 2T10102005 2SA10	k ohm ±5% ¼W CARBON FILM	2412114003			
TR32 2720247021 2SC2921LB(D)/(Y) TRANSISTOR 7834 2710145020 2SA1215LB(D)/(Y) TRANSISTOR 7836 2730247021 2SC2921LB(D)/(Y) TRANSISTOR 7836 2730247021 2SC2921LB(D)/(Y) TRANSISTOR 7836 2730247021 2SC2921LB(D)/(Y) TRANSISTOR 7836 2730145020 2SA1215LB(D)/(Y) TRANSISTOR 7838 2710145020 2SA1215LB(D)/(Y) TRANSISTOR 7840 2770053005 2S8647A(C) TRANSISTOR 7840 2770053005 2S8647A(C) TRANSISTOR 7841 271012005 2SA1015(Y) TRANSISTOR 7842 271012005 2SA1015(Y) TRANSISTOR 7843 271014020 2SA968(Y)/(D) TRANSISTOR 7845 271014020 2SA968(Y)/(D) TRANSISTOR 7849 2710140	TR32 2730247021 2SC2921LB(0)/(Y) TRANSISTOR TR35 2710145020 2SA21515B(0)/(Y) TRANSISTOR TR35 2730247021 2SC2921LB(0)/(Y) TRANSISTOR TR35 2730247021 2SC2921LB(0)/(Y) TRANSISTOR TR36 2730247021 2SC2921LB(0)/(Y) TRANSISTOR TR37 2710145020 2SA1215LB(0)/(Y) TRANSISTOR TR37 2710145020 2SA1215LB(0)/(Y) TRANSISTOR TR39 2720053005 2SB647A(C) TRANSISTOR TR39 2720053005 2SB647A(C) TRANSISTOR TR39 2720053005 2SB647A(C) TRANSISTOR TR31 2710140502 2SC1815(Y) TRANSISTOR TR31 2710102005 2SA1015(Y) TRANSISTOR TR31 2710102005 2SA1015(Y) TRANSISTOR TR32 2710102005 2SA1015(Y) TRANSISTOR TR34 2710102005 2SA1015(Y) TRANSISTOR TR32 2412130003 39 TR32 2412130003 39 TR34 2710102005 2SA1015(Y) TRANSISTOR TR32 2412130003 39 TR32 2412130003 39 TR30 245020303 10 TR30 276019003 HZ-15 DIODE TR30 2760049008 1S2076 DIODE TR30 27600490		(4) (4) (4)	W 11 15		
TR35	TR34		English men	V TOTAL	7021 2SC2921 LB(O)/(Y) TRANSISTOR	
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TR36	TR36 2730247021 2SC2921LB(0)/(Y) TRANSISTOR R37 2710145020 2SA1215LB(0)/(Y) TRANSISTOR R38 2710145020 2SA1215LB(0)/(Y) TRANSISTOR R44 2720053005 2SB647A(C) TRANSISTOR R44 2730198002 2SC1815(Y) TRANSISTOR R44 2710102005 2SA1015(Y) TRANSISTOR R44 2710102005 2SA1015(Y) TRANSISTOR R54 2710102005 2SA1015(Y) TRANSISTOR R64 2710104029 2SA968(Y)/(I) TRANSISTOR R65 2710104029 2SA968(Y)/(I) TRANSISTOR R66 2710104029 2SA968(Y)/(I) TRANSISTOR R67 2710104029 2SA968(Y)/(I) TRANSISTOR R78 2710102005 2SA1015(Y) TRANSISTOR R79 2710102005 2SA1015(Y) TRANSISTOR R7	k ohm ±5% %W CARBON FILM		R21		
TR37 2710145020 25A1215LB(0)/(Y) TRANSISTOR TR39 2710045020 25A1215LB(0)/(Y) TRANSISTOR TR39 2710053005 258647A(C) TRANSISTOR TR49 2720053005 258647A(C) TRANSISTOR TR49 2720053005 258647A(C) TRANSISTOR TR49 2730198002 25C1815(Y) TRANSISTOR TR49 2730198002 25C1815(Y) TRANSISTOR TR49 2730198002 25C1815(Y) TRANSISTOR TR49 2710102005 25A1015(Y) TRANSISTOR TR49 2710102005 25A1015(Y) TRANSISTOR TR45 2710104029 25A968(Y)/(0) TRANSISTOR TR45 2710104029 25A968(Y)/(0) TRANSISTOR TR45 2710102005 25A1015(Y) TRANSISTOR TR49 271010200	TR37 2710145020 2SA1215L8(0)/(Y) TRANSISTOR TR38 2710145020 2SA1215L8(0)/(Y) TRANSISTOR TR39 2720053005 2SB647A(C) TRANSISTOR TR40 2720053005 2SB647A(C) TRANSISTOR TR40 2720053005 2SB647A(C) TRANSISTOR TR40 2720053005 2SB647A(C) TRANSISTOR TR40 2720053005 2SC1815(Y) TRANSISTOR TR41 2730198002 2SC1815(Y) TRANSISTOR TR41 2730198002 2SC1815(Y) TRANSISTOR TR42 2730198002 2SC1815(Y) TRANSISTOR TR42 2710102005 2SA1015(Y) TRANSISTOR TR44 2710102005 2SA1015(Y) TRANSISTOR TR44 2710104029 2SA968(Y)/(O) TRANSISTOR TR45 2710104029 2SA968(Y)/(O) TRANSISTOR TR45 2710104029 2SA968(Y)/(O) TRANSISTOR TR45 2710102005 2SA1015(Y) TRANSISTOR TR49 2710102005 2SA1015(Y) TRANSISTOR TR50 2710102005 2SA1015(Y) TRANSISTOR TR50 2710102005 2SA1015(Y) TRANSISTOR TR50 2710102005 2SA1015(Y) TRANSISTOR TR50 276019003 HZ-15 DIODE DO2 2760219003 HZ-15 DIODE DO3 2760219003 HZ-15 DIODE DO3 2760219003 HZ-15 DIODE DO3 2760219003 HZ-15 DIODE DO3 2760171028 HV-23G(YL) DIODE DO3 2760049008 IS2076 DIODE DO3 2760049008 IS2076 DIODE DO3 2760049008 IS2076 DIODE DO3 2760049008 IS2076 DIODE DO4 2760049008 IS2076 DIODE DO4 2760049008 IS2076 DIODE DO4 2760049008 IS2076 DIODE DO5 2760216019 KB-265 DIODE DO5 2760254000 HZ-7B-3 DIODE DO4 2760254000 HZ-7B-3 DIODE DO5 2760254000 HZ-7B-3 DIODE DO5 2760254000 HZ-7B-3 DIODE DO5 2760254000 HZ-7B-3 DIODE DO5 2760049008 IS2076 DIO	k ohm ±5% %W CARBON FILM				
TR38 2710145020 2SA1215LB(D)(Y) TRANSISTOR TRANS 2720053005 2S8647A(C) TRANSISTOR DIODE 2760219003 HZ-15 DIODE 2	TR38 2710145020 2SA1215LB(D)/(Y) TRANSISTOR	k ohm +5% ¼W CARBON FILM	2412134000	ואפם		
TR41	TRA1	CONTRACTOR OF THE PROPERTY OF THE ACTION OF	2412134009	3A369536	5020 2SA1215LB(O)/(Y) TRANSISTOR	
TR41	TR41	经银铁 有效 九年以后的中央和国主席的	24.00 F/02	M 725		
R42	R42	M ohm ±10% %W CARBON COMPOSIT	2420203003	R27		
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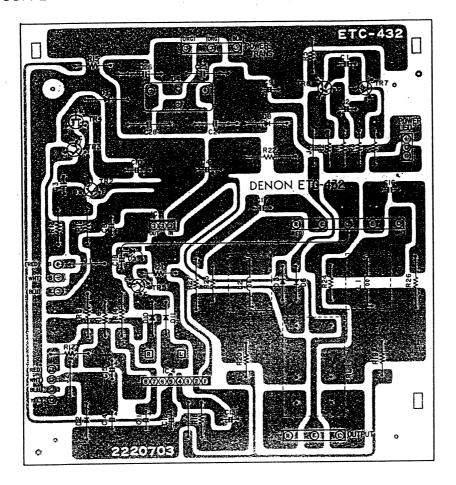
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;	Example 1	CAPACITORS
C01	2544015009	10µF 16V ELECTROLYTIC
C02	2544015009	10μF 16V ELECTROLYTIC 10μF 16V ELECTROLYTIC 100pF ±5% 50V MICA FILM 100pF ±5% 50V MICA FILM
C03	2521034003	100pF ±5% 50V MICA FILM
C04	2521034003	100pF ±5% 50V MICA FILM
C05	2544044009	1 1 uF 50V ELECTROLYTIC I
C06	2544044009	1µF 50V ELECTROLYTIC
C07	2554149004	0.0015µF ±5% 50V PLASTIC FILM
C08	2554149004	0.0015#F ±5% 50V PLASTIC FILM
C09	2544015009	10µF 16V ELECTROLYTIC 10µF 16V ELECTROLYTIC
C10	2544015009	
C11	2561026000	
C12	2561026000	1µF ±10% 125V METALIZED FILM 8pF ±0.5pF 50V MICA FILM
C13 C14	2521008000	8pF ±0.5pF 50V MICA FILM
C14	2521016005	I 185F +5% 50V MICA FILM I
C16	2521016005	18pF ±5% 50V MICA FILM
C17	2521026008	147pF ±5% 50V MICA FILM
C18	2521026008	47pF ±5% 50V MICA FILM
19	2521081030	5pF ±0.5pF 500V MICA FILM
(Yo	2521081030	5pF ±0.5pF 500V MICA FILM
C21	2554145008	0.001 µF ±5% 50V PLASTIC FILM
C22	2554145008	0.001µF ±5% 50V PLASTIC FILM 0.001µF ±5% 50V PLASTIC FILM
C23	2554084017	
C24	2554084017	0.01µF ±5%100V PLASTIC FILM 0.0047µF ±5% 50V PLASTIC FILM
C25	2554161008	0.0047µF ±5% 50V PLASTIC FILM
C26	2554161008	0.0047µF ±5% 50V PLASTIC FILM 0.0047µF ±5% 50V PLASTIC FILM
C27	2554161008 2554161008	0.0047µF ±5% 50V PLASTIC FILM
C28	2554161008	I O OO47#F +5% 50V PLASTIC FILM I
C29 C30	2554161008	0.0047µF ±5% 50V PLASTIC FILM
(31)	2554161008	0.0047µF ±5% 50V PLASTIC FILM
82	2554161008	0.0047µF ±5% 50V PLASTIC FILM
G33	2544059081	10µF 63V ELECTROLYTIC
C34	2544059081	10µF 63V ELECTROLYTIC
35	2544059081	10µF 63V ELECTROLYTIC
C36	2544059081	10µF 63V ELECTROLYTIC
C37	2544060025	1μF 100V ELECTROLYTIC
C38	2544060025	1μF 100V ELECTROLYTIC
C39	2544060025	1μF 100V ELECTROLYTIC
C40	2544060025	1µF 100V ELECTROLYTIC 0.01µF ±10% 630V METALIZED FILM
C41	2561017019	0.01µF ±10% 630V METALIZED FILM 0.01µF ±10% 630V METALIZED FILM
C42 .	2561017019	15pF ±5% 50V MICA FILM
C43 C44	2521014007 2521014007	15pF ±5% 50V MICA FILM
C44 C45	2521014007	15pF ±5% 50V MICA FILM
L 45	2021014007	100. 100.001 111.0.11.1.1.1.

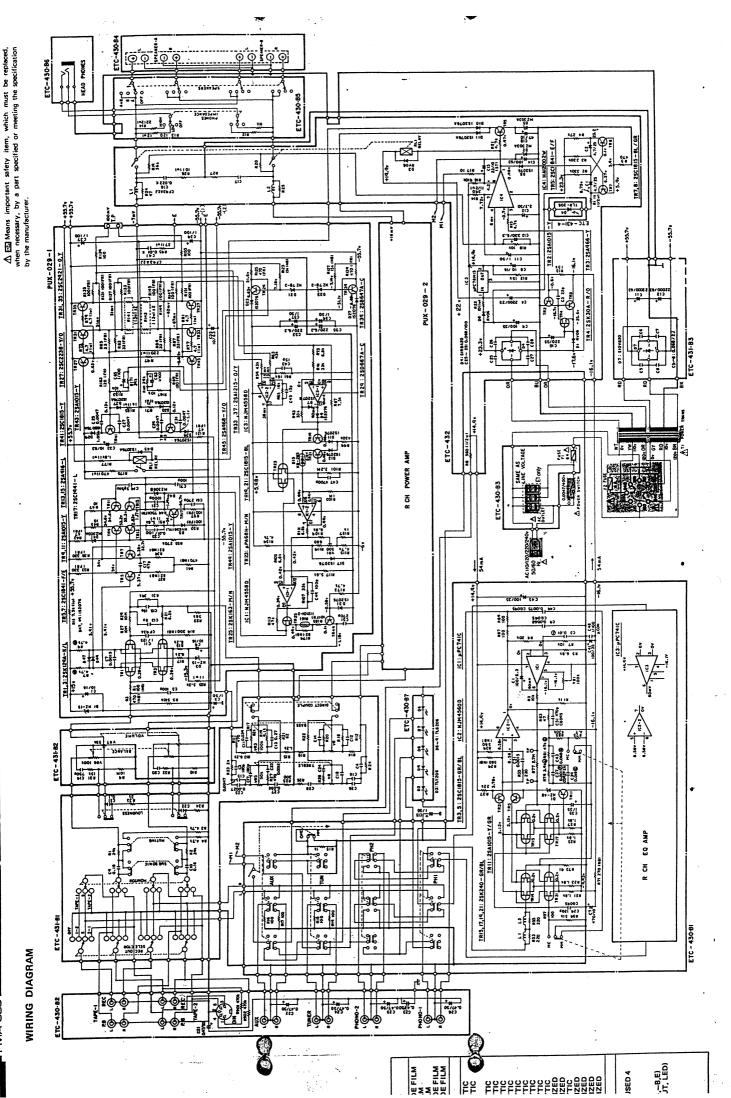
Ref. No.	Part No.	Part Name & Descriptions .
C46	2521014007	15pF ±5% 50V MICA FILM
C47	2554161008	0.0047µF ±5% 50V PLASTIC FILM
C48 .	2554161008	0.0047µF ±5% 50V PLASTIC FILM
C49	2554121006	100pF ±5% 50V PLASTIC FILM
C50	2554121006	100pF ±5% 50V PLASTIC FILM
·C51	2554131009	270pF ±5% 50V PLASTIC FILM
C52	2554131009	270pF ±5% 50V PLASTIC FILM
C53	2544004007	220µF 6.3V ELECTROLYTIC
C54	2544004007	220µF 6.3V ELECTROLYTIC
C55	2544004007	220µF 6.3V ELECTROLYTIC
C56	2544004007	220µF 6.3V ELECTROLYTIC
C57	2544044009	1μF 50V ELECTROLYTIC
C58	2544044009	1μF 50V ELECTROLYTIC
C59	2544044009	1μF 50V ELECTROLYTIC
C60	2544044009	1μF 50V ELECTROLYTIC
C61	2554131009	270pF ±5% 50V PLASTIC FILM 270pF ±5% 50V PLASTIC FILM
C62	2554131009	
C63	2544060025	1μF 100V ELECTROLYTIC
C64	2544060025	1μF 100V ELECTROLYTIC
C65	2544060025	1μF 100V ELECTROLYTIC
C66	2544060025	1µF 100V ELECTROLYTIC
C71	2521034003	100pF ±5% 50V MICA FILM
C72	2521034003	100pF ±5% 50V MICA FILM
		OTHER PARTS
RL01 RL02	2220700007 2090047903 EP-5667H1 EP-6071 2035622008 2050175025 2140029004 2030223017 2030223017 2030223020 4450033005 4170139001 4700012022 4120871005 4120872004 4120873003 4120874002 4730354035	P.W. BOARD 0.6 JUMPER WIRE SHORTLEAD USED 74 TERMINAL FOR WRAPPING PIN USED 2 BASE PIN USED 6 3P. CONNECTOR BASE USED 2 3P. CONNECTOR PIN ASS. USED 4 2P TERMINAL USED 2 REED RELAY REED RELAY 1P. CONNECTOR CORD FOR L 1P. CONNECTOR CORD FOR R WIRE CLAMP BAND USED 4 POWER RADIATOR USED 2 CROSS PAN SCREW WITH S. WASHER 3×12 USED 16 RADIATOR BRACKET (A) USED 2 RADIATOR BRACKET (B) USED 2 BRACKET (A) USED 2 BRACKET (B) USED 2 TAPPING SCREW (2)3×8 USED 16
		ļ

POWER SUPPLY & PROTECTOR UNIT ETC-432

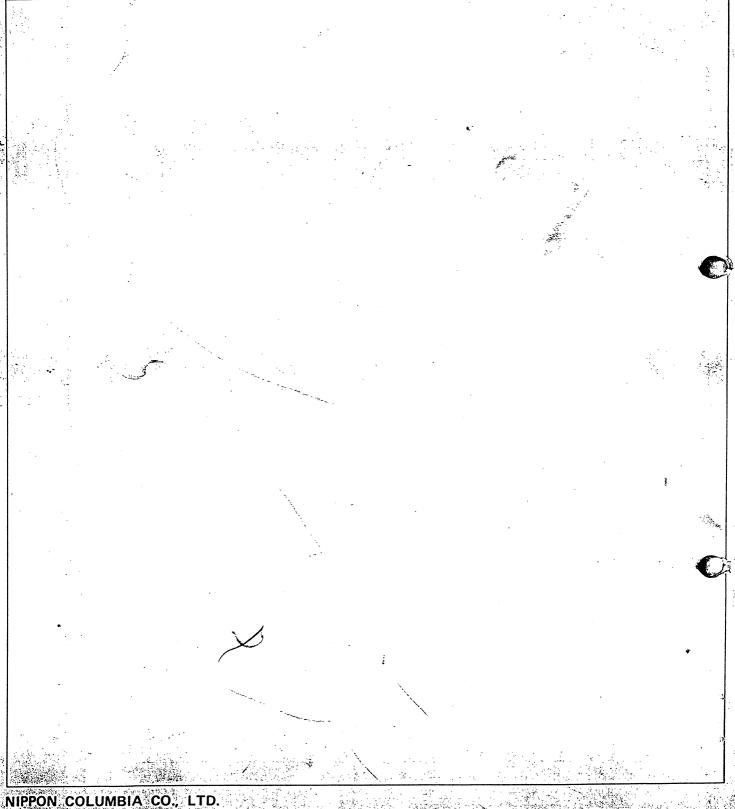


Ref. No.	Part No.	Part Name	& Descriptions		
SEMICONDUCTORS					
IC03 IC04 TR02 TR03 TR04 TR05 TR07 TR08 D01 D02 D03 D04 D05 D06 D08 D10	2630155006 2630102004 2710102005 2710105002 2750018023 2750018023 2730235004 2730198031 2760237001 2760237001 2760237001 2760239009 2760244007 2760049008 2760237001	μPC78M15 HA12002W 2SA1015(Y) 2SA966(Y) 2SK30A(R)/(O) 2SC1841(F) 2SC1815(BL)/(GR) 2SC1815(BL)/(GR) RV06 MZ303A RV06 S1RBA20F MZ303A 1S2076 RV06 1S2076A	INTEGRATED CIRCUIT INTEGRATED CIRCUIT TRANSISTOR FIELD EFFECT TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIODE		
D11 2760049011 1S2076A DIODE RESISTORS					
R01 R02 R03 R04 R05 R08 R09 R10 R12 R13 R14 R15 R16 R17 R18 R19 R20	2410185005 2412152007 2412152007 2412152007 2412126004 2412084007 2410179008 2412116001 2412120000 2412120000 2410175002 2412108006 2412163009 2412044005 2412116001 2412129001 2412129001 2412129001 2412129001	330 k ohm ±5% ½W 330 k ohm ±5% ½W 27 k ohm ±5% ½W 470 ohm ±5% ½W 560 ohm ±5% ½W 10 k ohm ±5% ½W 15 k ohm ±5% ½W 390 ohm ±5% ½W 4.7 k ohm ±5% ½W 910 k ohm ±5% ½W	CARBON FILM		

Ref.	T			
No.	Part No.	Part Name & Descriptions		
R22	2440013024	4.7 ohm ±5% 1W METAL OXIDE FILM		
R24	2412060005	47 ohm ±5% ½W CARBON FILM		
R25	2412060005	47 ohm ±5% ½W CARBON FILM		
R26	2440017020	10 ohm ±5% 1W METAL OXIDE FILM		
R27	2440017020			
CAPACITORS				
C01	2544024003	4.7μF 25V ELECTROLYTIC		
C02	2544024003	4.7μF 25V ELECTROLYTIC		
C03	2521018003	22pF ±5% 50V MICA FILM		
C04	2544079016	2200µF 25V ELECTROLYTIC		
C08	2544015009	10μF 16V ELECTROLYTIC		
C09	2544038002	100μF 35V ELECTROLYTIC 220μF 35V ELECTROLYTIC		
C10	2544039001	220µF 35V ELECTROLYTIC		
C11	2544044009	1μF 50V ELECTROLITIC		
C12	2544066003	2.2μF 50V ELECTROLYTIC		
C13	2544005006	330µF 6.3V ELECTROLYTIC		
C14	2544003008	100µF 6.3V ELECTROLYTIC		
C15	2549015004	2.2μF ±10% 10V ELECTROLYTIC		
C16	2561017035	0.022µF ±10% 630V METALIZED		
C17	2561017035	0.022µF ±10% 630 METALIZED		
C18	2544009002	47μF 10V ELECTROLYTIC 0.068μF ±10% 400V METALIZED		
C25	2561016007			
C26 \	2561016007			
C27	2561016007			
C28	2561016007	Опосор:		
		OTHER PARTS		
	2220703004	P.W. BOARD		
	2090008120	JUMPER SHORTLEAD P=10mm USED 4		
	EP-6071	BASE PIN USED 2		
	2050087039	3P. TERMINAL USED 2		
	2050087055	5P. TERMINAL USED 1		
	2035622008	3P. CONNECTOR CORD (FOR +B,-B,E)		
1.	2036082003	4P. CONNECTOR CORD (FOR MUT, LED)		
L01	2320017001	INDUCTOR		
LO2	2320017001	INDUCTOR		
RL01	2140041008	RELAY		
	4170043100	RADIATOR		
	4730354019	TAPPING SCREW (2)3×8		



DENON



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